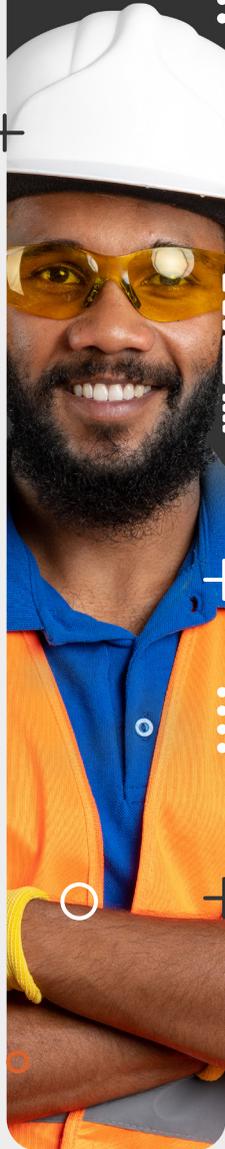


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i-G3N

INNOVATION GENERATION

SCALABLE



XRANGE

SPEC SHEET

PREMIUM, LITHIUM-ION PHOSPHATE BATTERIES



Futuristic and Advanced

The X-Range is designed to support a stackable layout without compromising floor space, and at the same time offers a raised height location to protect the battery from possible flood damage.

The battery has a control box which houses all the control electronics and is differentiated as the white layer on the unit. The unit feature and external SOC and in-depth diagnostics are available via CAN bus and the Bluetooth application.

Easy of installation being the key factor for Large format batteries, each layer only weighs 200kg.

Using trusted LiFePO_4 (LFP) cell technology the X-Range offers a full 50 kW (1000A) sustained output. The control unit comes 1000A units, giving a wider range of design options . Up to 6 storage expansion units can be paralleled together.

The X-Range ships as fully enclosed system which can stand by itself.

The X-Range is Setup in a Master Secondary configuration giving you scale up options between 21.5 - 537.6 kWh.

Top Features

- Scalable in 21.5 kWh increments
- Control box on master unit
- Full suite CANbus integration with Victron, SunSynk and SMA inverters
- Built in battery protection
- On-board Diagnostics via Bluetooth(optional)
- CAN bus enabled - wide baud rate capabilities and multi PGN reference grid

Support



078 335 7653



Support@i-g3n.com

General



010 006 0157



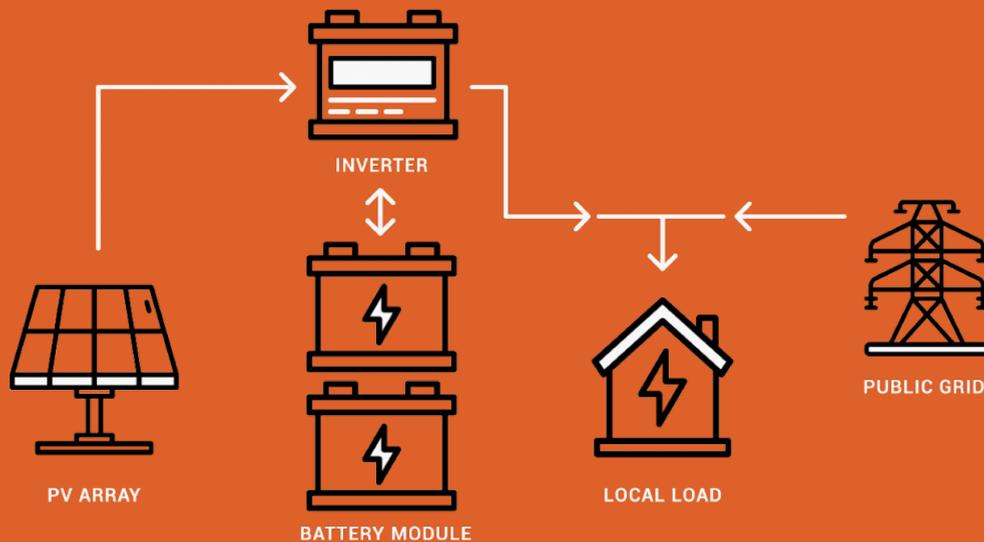
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Why X-Range

- Local assembly and technical support
- Optional Off-site diagnostics (via VRM or the system)
- Nationwide support and maintenance
- Built for homes, small businesses and light commercial applications



Reasons for lithium-ion being selected include:

- Lower lifetime costs
- Lower impact on the environment
- Longer warranty available
- Lighter weight
- Higher efficiency
- Higher cycle life
- Better maintained voltage during the discharge cycle
- Greater depth of discharge
- Lower maintenance
- Predictable Service Life

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Specs

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X-Range	X-21	X-43	X-64	X-86	X-107
Cell Type	Lithium Ion Phosphate (LiFePO4) battery				
Battery nominal capacity [kWh]	21.5	43.0	64.5	86.0	107.5
Battery usable capacity 80% DoD [kWh]	17.2	34.4	51.6	68.8	86.0
Design life	>15 years (>5500 cycles) expected life at at 80% Dod				
Warranty	>10 years (>4000 cycles) @ 25°C				
Nominal energy [A]	420	840	1260	1680	2100
Module Voltage [V]	51,2V _{DC} Nominal				
Maximum discharge current (continuous) [A]	400	800	1000	1000	1000
Maximum discharge current (not continuous - 3sec) [A]	400	850	1000	1000	1000
Discharging cut-off voltage [LVD]	50V				
Operating Conditions	Temperature range recommended (-10°C~40°C)				
Safety	Safe cell design Prismatic cells with venting device				
BMS	BMS system with safety lines & multi-level fault detection system				
Cell thermal management	BMS controlled active cooling				
Transport	UN 3480, CE				
Dimensions [mm] (W x H x L) Storage Unit	880x270x630 deep				
Dimensions [mm] (W x H x L) Control Box	880x100x630 deep				
Weight Storage unit	200Kg				
Communication	RJ45 UTP				

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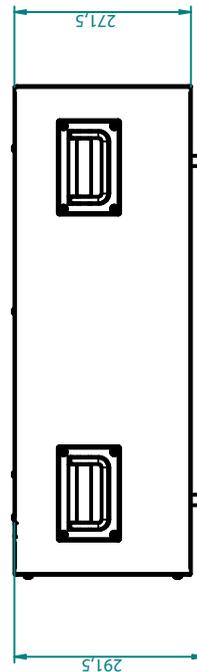
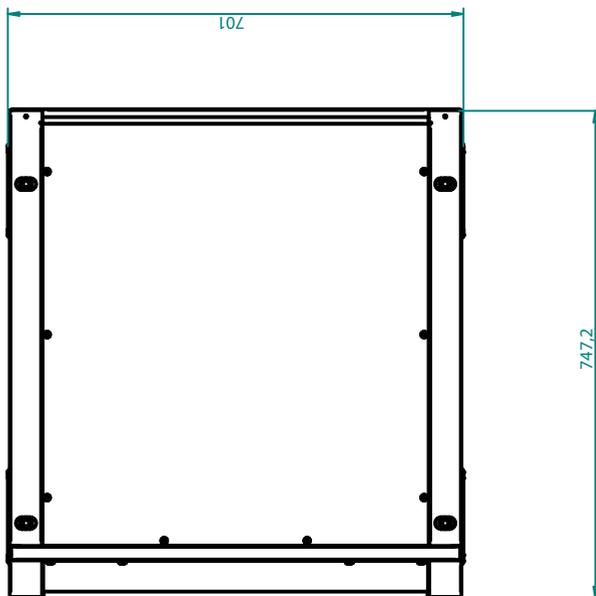
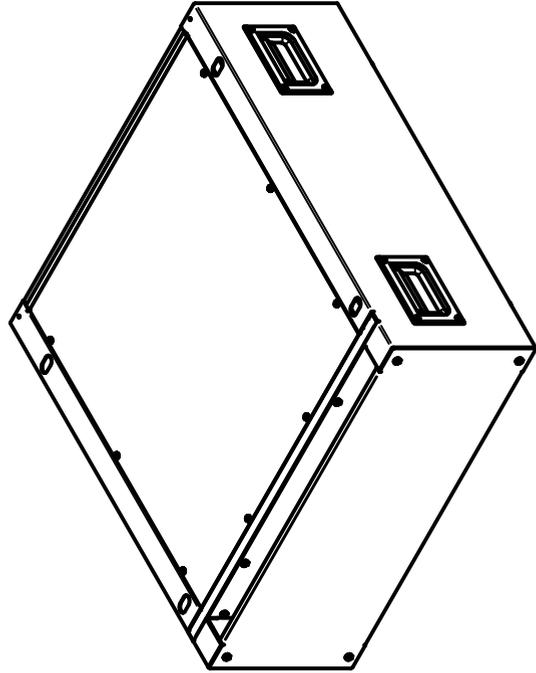
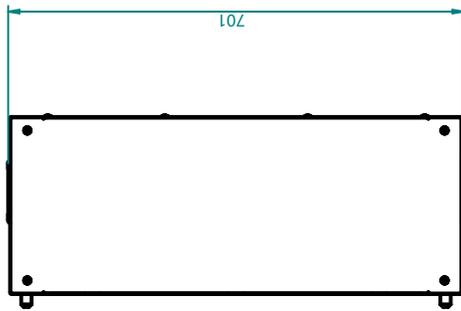


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Dimensions



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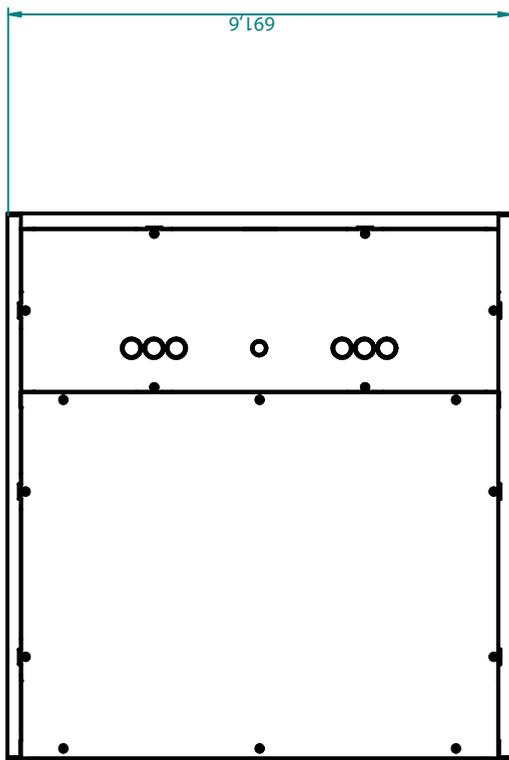
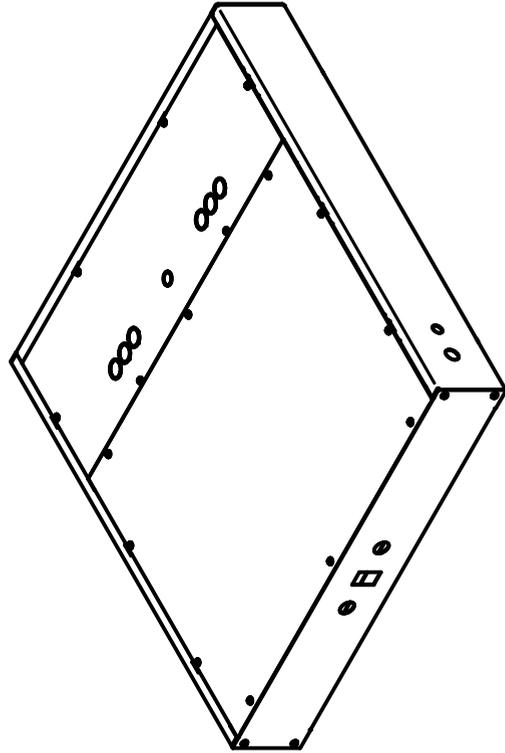
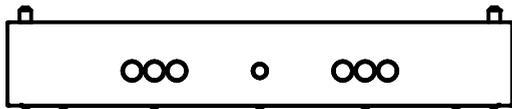


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Control Box



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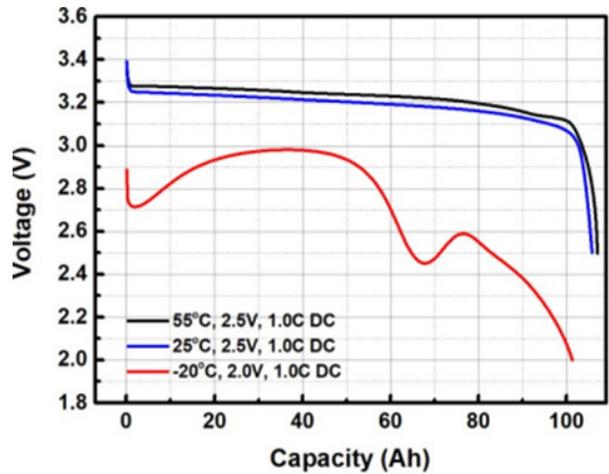
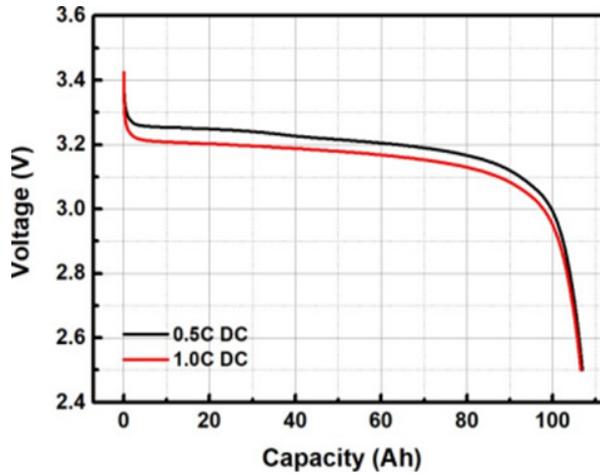
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Discharge Rate Temperature graph



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Information

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